2		03

02

1. $_{27}^{60}Co$.

.

1.1.   .

1.2. $_{28}Ni$ $_{26}Fe\cdot$

2. $m(t) = m_0 e^{-\lambda t}$.   m0   t=0

m(t)   t .

3. $t_{1/2}$. $t = n.t_{1/2}$ (n   ) $_{27}^{60}Co$ t

$m(t) = \dfrac{m_0}{2^n}$.

4. $_{27}^{60}Co\cdot$

4.1. $t_{1/2}$ 60   m   t=10,5ans .

4.2. $t = \ddagger$ $m = \dfrac{m_0}{e}$.

4.3. a_0 t=0 $t_{1/2}$ m_0 N_A M   60.

a_0 .   : M=60g.mol^{-1} N_A=6,02.10^{23} mol^{-1} 1année=365,25jours